

## DAFTAR ISI

<b>LEMBAR PENGESAHAN .....</b>	<b>ii</b>
<b>LEMBAR PERNYATAAN KEASLIAN PROYEK AKHIR.....</b>	<b>iii</b>
<b>KATA PENGANTAR.....</b>	<b>iv</b>
<b>DAFTAR ISI.....</b>	<b>vi</b>
<b>DAFTAR GAMBAR.....</b>	<b>viii</b>
<b>DAFTAR TABEL .....</b>	<b>ix</b>
<b>ABSTRACT .....</b>	<b>x</b>
<b>INTISARI .....</b>	<b>xi</b>
<b>BAB I.....</b>	<b>12</b>
<b>PENDAHULUAN .....</b>	<b>12</b>
<b>1.1 Latar Belakang.....</b>	<b>12</b>
<b>1.2 Tujuan dan Manfaat.....</b>	<b>13</b>
<b>1.2.1 Tujuan .....</b>	<b>13</b>
<b>1.2.2 Manfaat .....</b>	<b>13</b>
<b>1.3 Batasan Masalah .....</b>	<b>14</b>
<b>1.4 Metodologi Penulisan .....</b>	<b>14</b>
<b>BAB II .....</b>	<b>15</b>
<b>TINJAUAN PUSTAKA.....</b>	<b>15</b>
<b>2.1 Sel Surya .....</b>	<b>15</b>
<b>2.2 Auto Cut Off Charging .....</b>	<b>15</b>
<b>2.3 Relay .....</b>	<b>16</b>
<b>2.4 Buck boost Converter.....</b>	<b>17</b>
<b>2.5 Baterai.....</b>	<b>17</b>
<b>2.6 Light Dependent Resistor.....</b>	<b>18</b>
<b>BAB III.....</b>	<b>19</b>
<b>PERANCANGAN ALAT .....</b>	<b>19</b>
<b>3.1 Diagram Blok Sistem .....</b>	<b>19</b>
<b>3.2 Flowchart.....</b>	<b>21</b>
<b>3.2.1 Buck Boost Converter .....</b>	<b>21</b>

<b>3.3 Perangkat Keras.....</b>	<b>21</b>
<b>3.3.1 Lampu Penerangan.....</b>	<b>22</b>
<b>3.3.2 Baterai.....</b>	<b>23</b>
<b>3.3.3 Panel Surya.....</b>	<b>23</b>
<b>3.3.4 <i>Auto Cut Off Charging</i> .....</b>	<b>24</b>
<b>3.3.5 <i>Buck boost converter</i> .....</b>	<b>24</b>
<b>3.3.6 Rangkaian <i>Light Dependent Resistor</i> .....</b>	<b>25</b>
<b>3.3.7 Perancangan Desain Lampu Penerangan.....</b>	<b>27</b>
<b>3.4 Alat Penelitian .....</b>	<b>28</b>
<b>3.4.1 Peralatan Penunjang .....</b>	<b>28</b>
<b>3.4.2 Bahan Penelitian .....</b>	<b>28</b>
<b>3.5 Prosedur Pengujian .....</b>	<b>29</b>
<b>3.5.1 Pengujian Panel Surya .....</b>	<b>29</b>
<b>3.5.2 Pengujian Baterai .....</b>	<b>30</b>
<b>3.5.3 Pengujian <i>Auto Cut Off Charging</i> .....</b>	<b>31</b>
<b>3.5.4 Pengujian <i>Buck boost converter</i> .....</b>	<b>32</b>
<b>3.5.5 Pengujian rangkain <i>Light Dependent Resistor</i> .....</b>	<b>33</b>
<b>3.5.6 Pengujian Sistem Keseluruhan.....</b>	<b>34</b>
<b>BAB IV.....</b>	<b>36</b>
<b>HASIL DAN PEMBAHASAN .....</b>	<b>36</b>
<b>4.1 Hasil dan Analisis Pengujian Panel surya .....</b>	<b>36</b>
<b>4.2 Hasil dan Analisis Pengujian Baterai.....</b>	<b>37</b>
<b>4.3 Hasil dan Analisis Pengujian <i>Auto Cut Off Charging</i> .....</b>	<b>37</b>
<b>4.4 Hasil dan Analisis Pengujian <i>buck boost converter</i> .....</b>	<b>38</b>
<b>4.5 Hasil dan Analisis Pengujian Rangkaian <i>Light Dependent Resistor</i> .....</b>	<b>39</b>
<b>4.6 Hasil dan Analisis Pengujian Sistem Keseluruhan .....</b>	<b>39</b>
<b>BAB V .....</b>	<b>41</b>
<b>PENUTUP.....</b>	<b>41</b>
<b>5.1 Kesimpulan.....</b>	<b>41</b>
<b>5.2 Saran .....</b>	<b>41</b>
<b>DAFTAR PUSTAKA.....</b>	<b>42</b>